

ORDER NO. SD0509U45C1

E6

Service Manual

Wet/Dry Rechargeable Shaver

ES8167-U1 / ES8168-U1



SPECIFICATIONS

Power source

Power consumption

Charging time

Shaves per charge

Measurement

Weight

Supplied accessories

SPECIFICATIONS

AC 100-240V, 50-60Hz (Automatic voltage conversion)

DC5V 1A

1 Hour

14 times (3 minutes shave)

(H)15.3 x (W)6.2 x (D)4.6 cm

180g (without protective cap)

Soft case

Self-cleaning recharger

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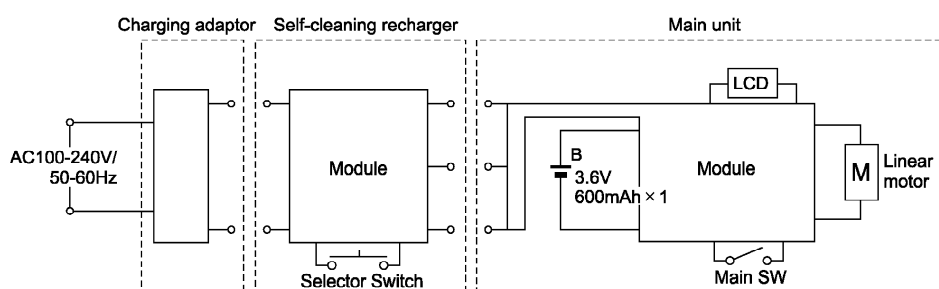
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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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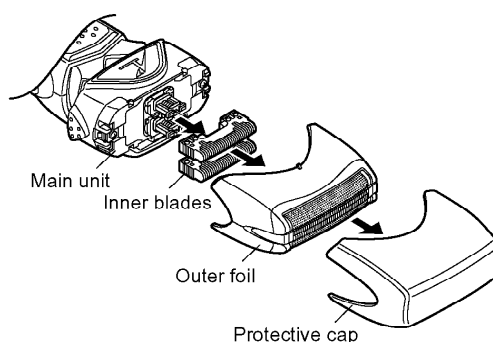
1. SCHEMATIC DIAGRAM



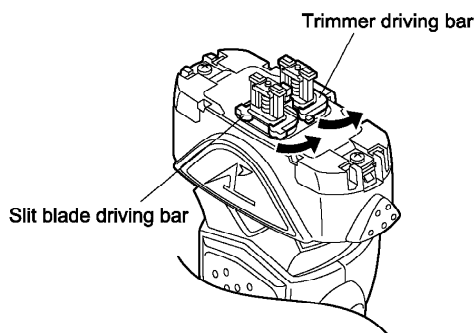
2. DISASSEMBLY INSTRUCTIONS

Follow the procedure below to disassemble the main unit.

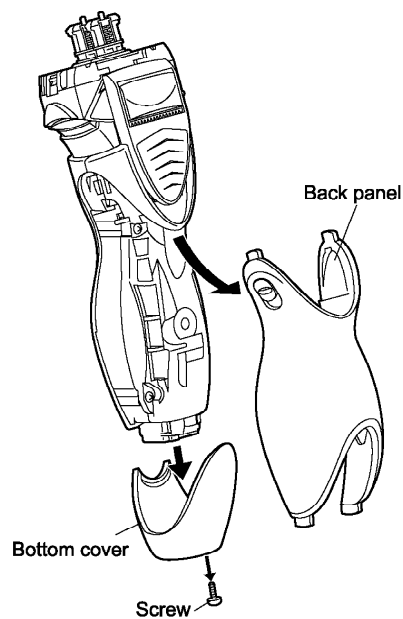
1. Remove the cap, the outer foil and the inner blade.



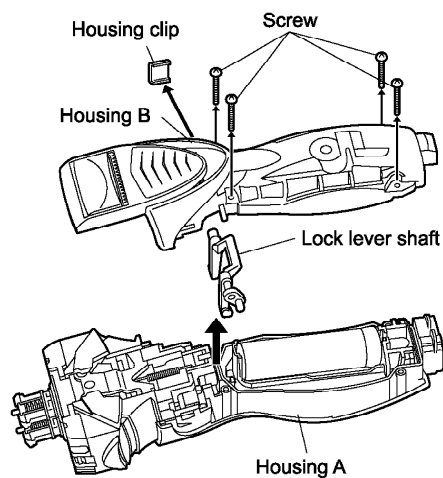
2. To remove the trimmer driving bar or the slit blade driving bar, press bars outward.



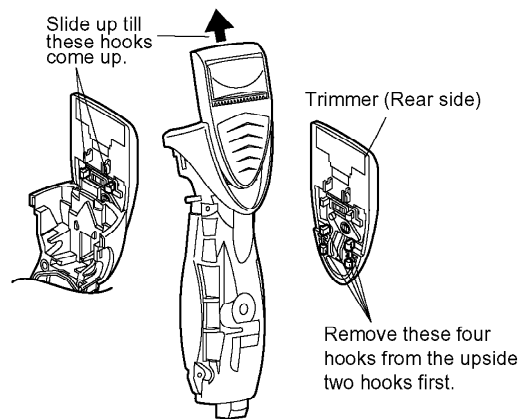
3. Loosen a screw and remove the bottom cover. Set the pivot action selector to "LOCK". Slide the back panel and remove it with care of pivot action selector.



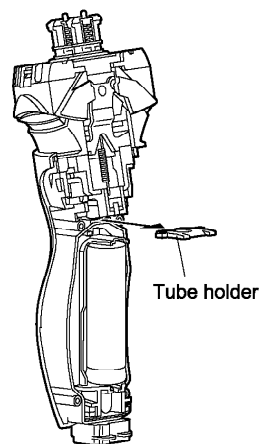
4. Remove the housing clip.
Loosen four screws and remove housing B.
Take out the lock lever shaft.



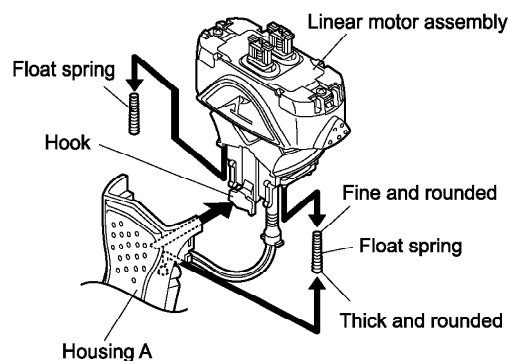
5. Set the trimmer at about 8mm sliding above. To unhook the right and left side of upside hooks, slightly pull the trimmer forward. Then, slightly pull the trimmer in each side.



6. Take out the tube holder.



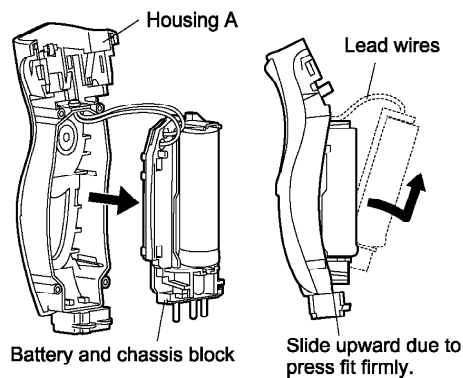
7. Move gently the linear motor assembly down and unhook it and remove the float springs from housing A.



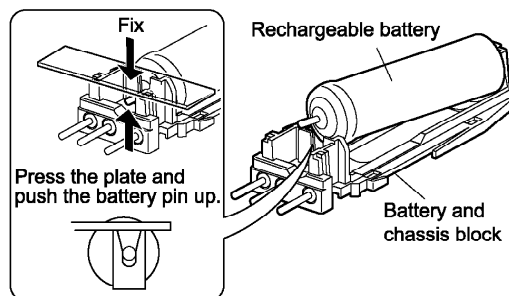
8. Pull up the battery and chassis block from the linear motor side first. Then, slide it upward and take it out from the housing A.

NOTE:

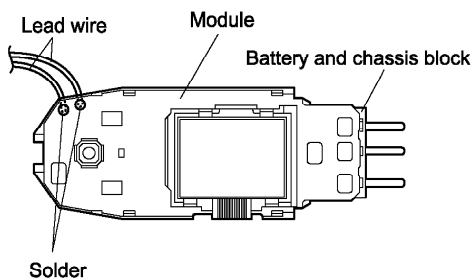
Do not pull the battery and chassis block forcefully due to connecting the linear motor by the lead wires.



9. Take out the battery from the chassis.



10. Unsolder the lead wires from the module.



3. CAUTION IN ASSEMBLY

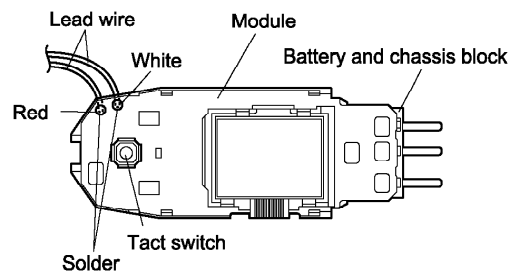
NOTE: When reassembling, replace the new waterproof rubber.

Make sure whether there is NO foreign substance sticking around a part covered with waterproof seal.

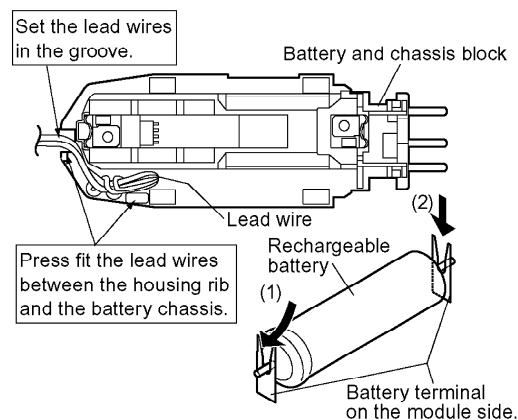
1. Solder the lead wires with the module.

NOTE:

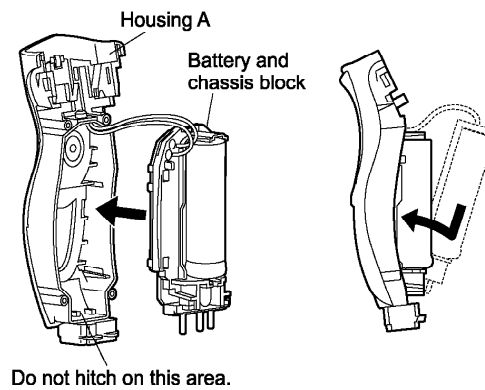
Make sure of the color of lead wires.



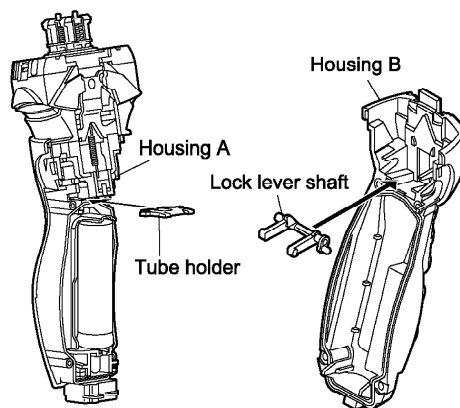
2. Make sure that the lead wires set in position. Install (+) terminal of battery into the terminal plate at the linear motor side and firmly set the battery sliding the direction of arrow.
Attach (-) terminal of battery.



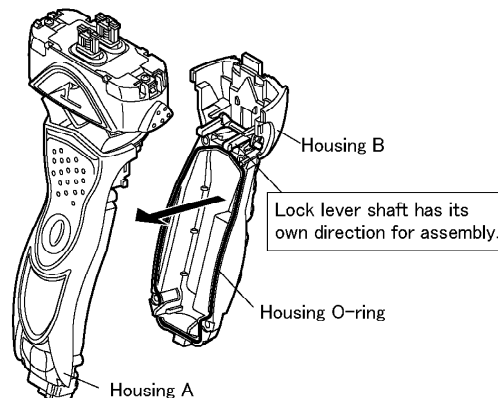
3. When inserting the battery and module assembly into the housing A, confirm if the module does not get any damage or deformation.



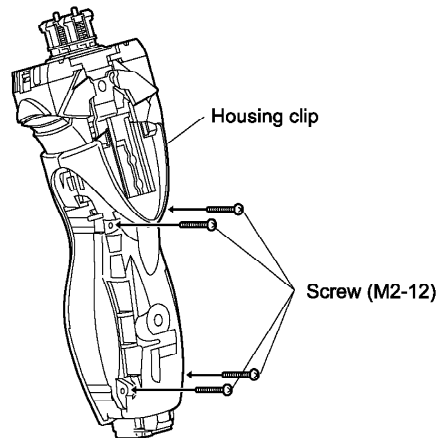
4. Set the linear motor assembly on the housing A and sliding it upward to hook. Confirm that the lead wire tube fits to the housing A firmly and no foreign substance sticking around. Attach the tube holder to housing A with care of the direction. And attach the rock lever shaft to housing B.



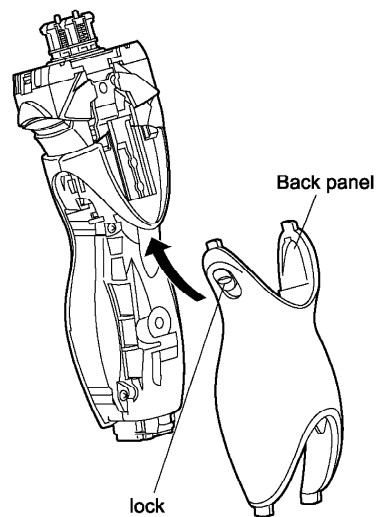
5. When putting the housing A and the housing B together, make sure if the waterproof seal must be fitted properly and no foreign substance sticking around.



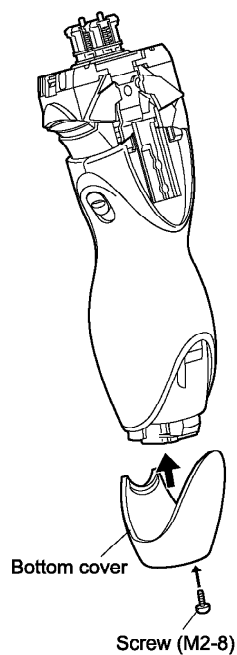
6. Tighten the four screws and set the housing clip.



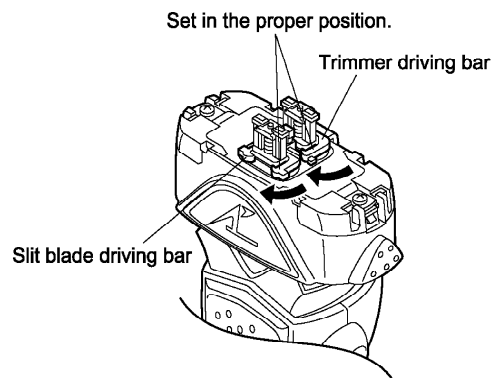
7. Attach the back panel with the position "LOCK".



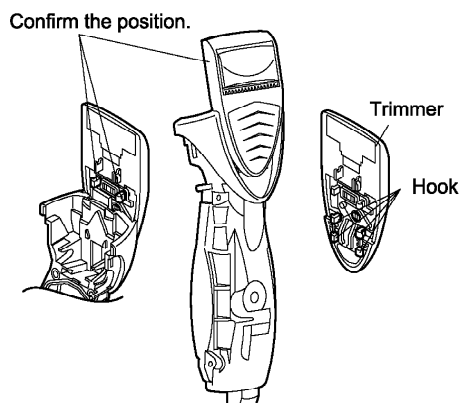
8. Set the bottom cover tighten with a screw.



9. Set the trimmer driving bar and the slit blade driving bar.

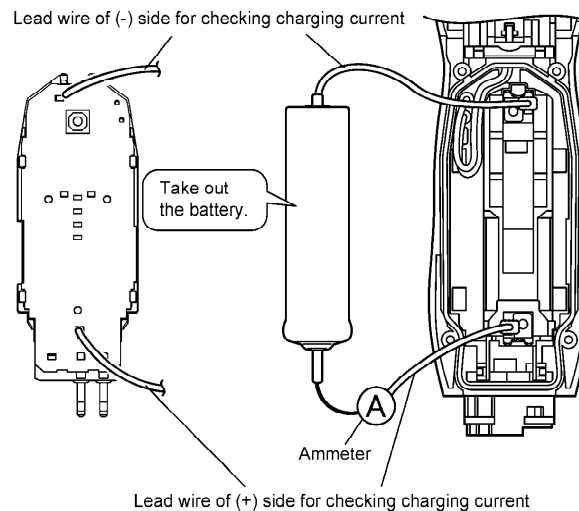
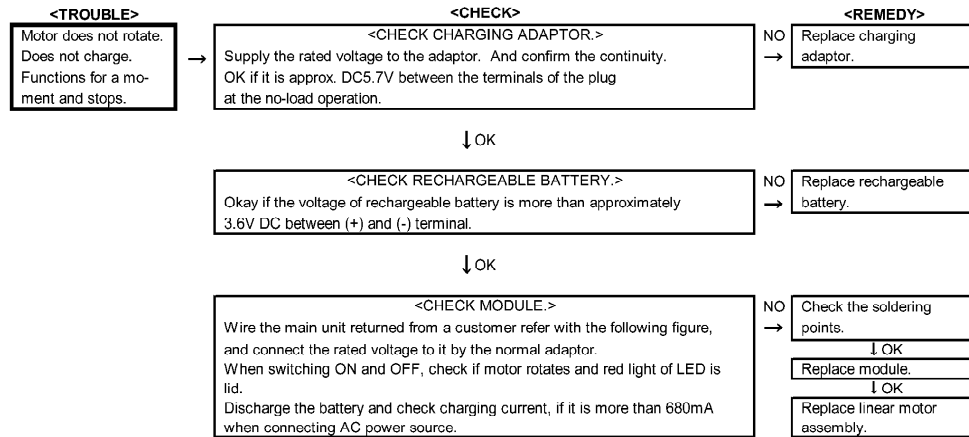


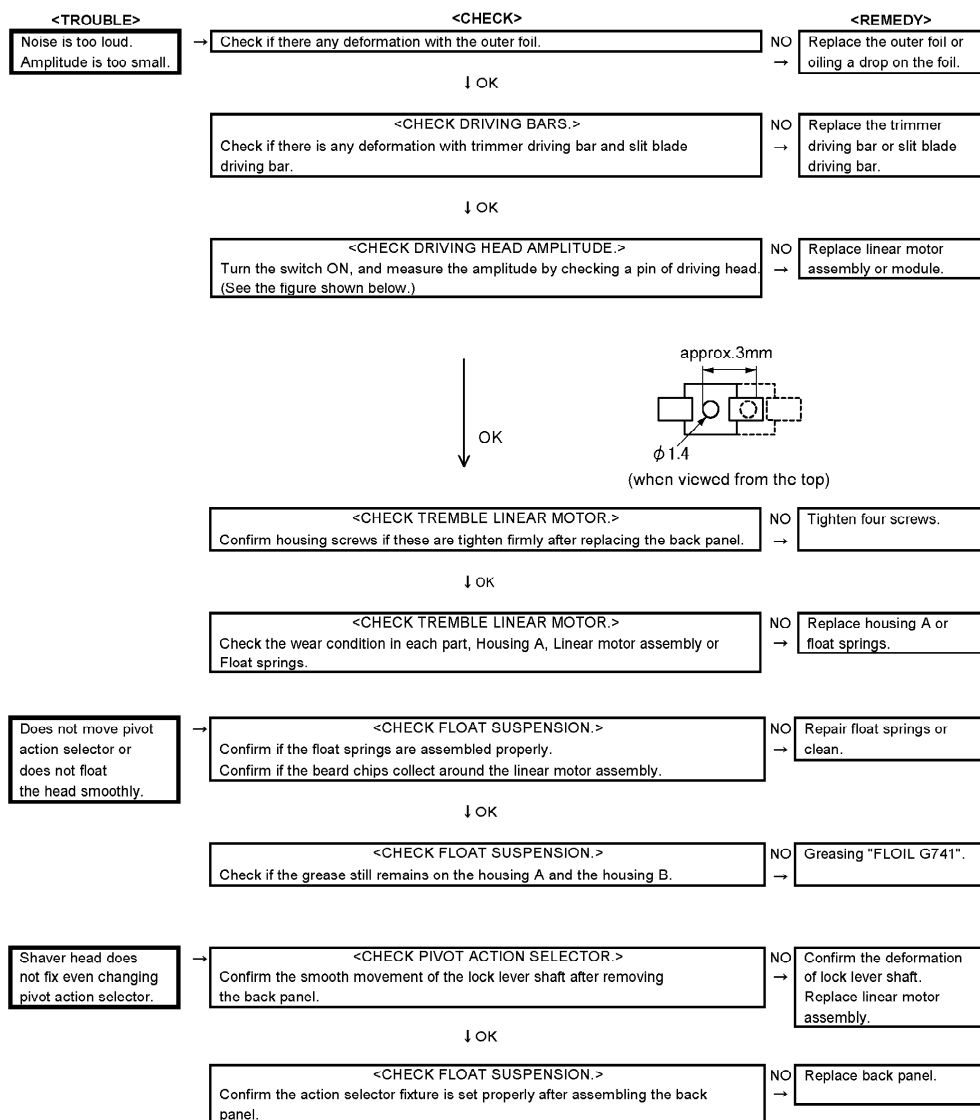
10. Set the position where removing it and click hooked.
If the position is not properly, it makes the deformation of the hook.



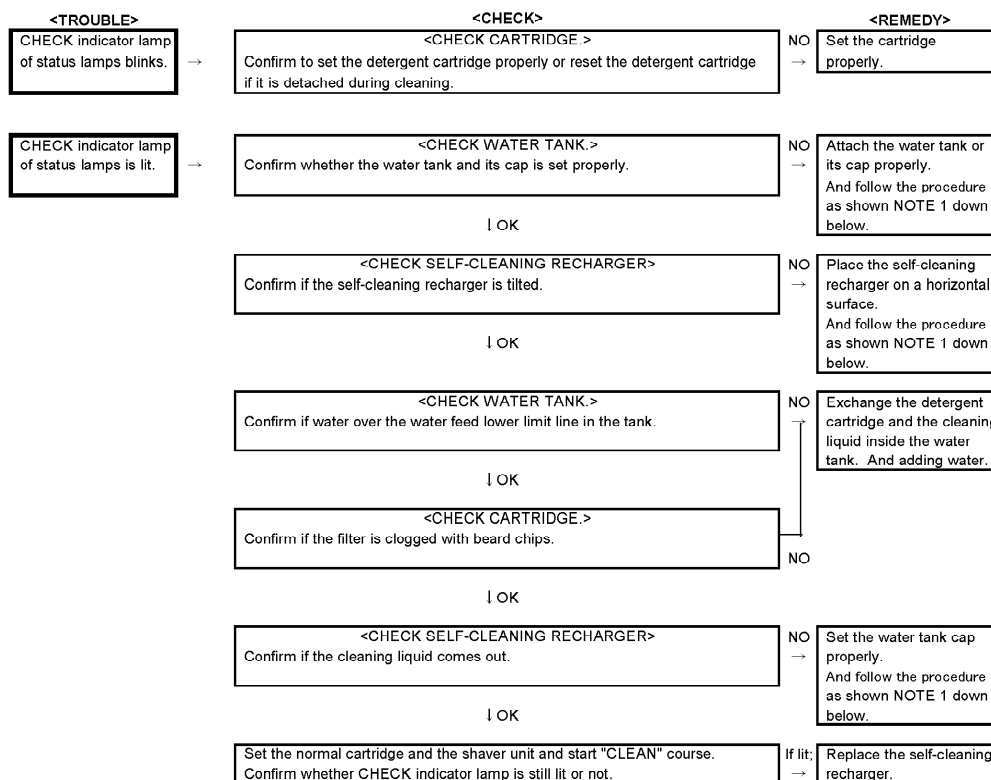
4. TROUBLESHOOTING GUIDE

4.1. Main unit and charging adaptor





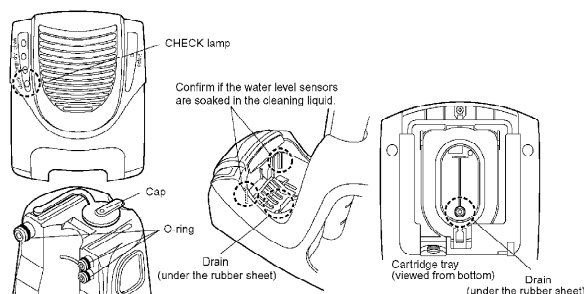
4.2. Self-cleaning recharger



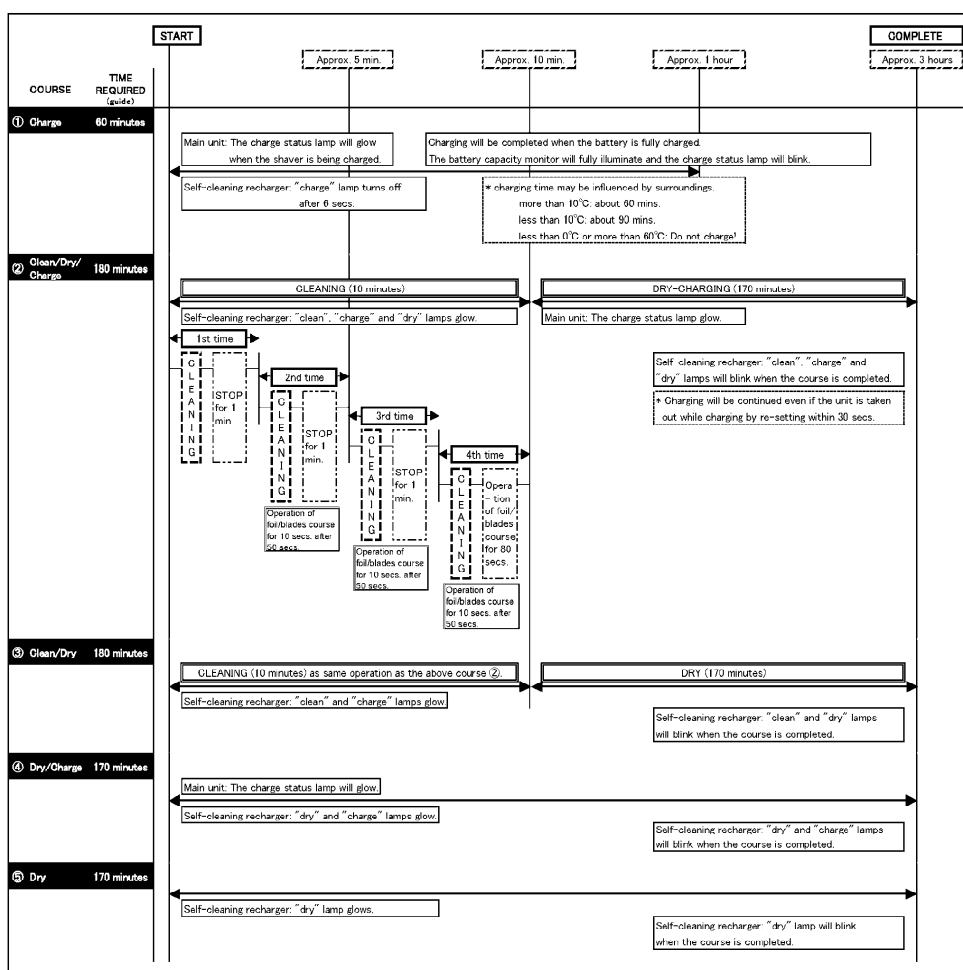
NOTE 1: Hold down the SELECT button for approximately two seconds to extinguish the CHECK indicator lamp.

NOTE 2: The course will be aborted if the power is cut off during cleaning.
Try to re-operate the course once again to exhaust the cleaning liquid on the cartridge tray.

NOTE 3: If the cleaning liquid remains the tray even the course is completed normally,
clean the drain and cartridge tray.



5. OPERATION OF SELF-CLEANING RECHARGER



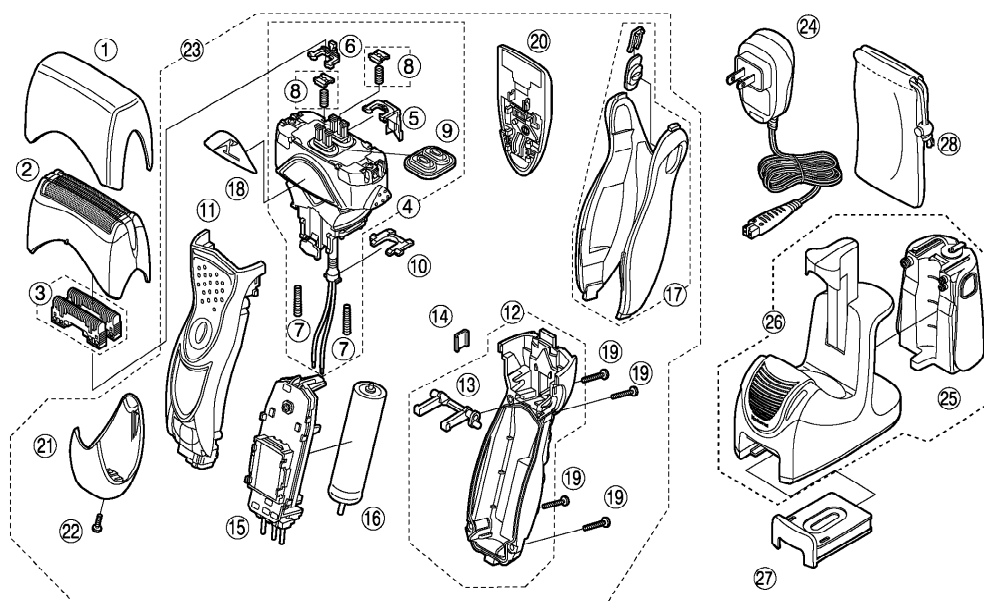
NOTE: When the shaver is set on the self-cleaning recharger, "Charge" course is selected automatically. Press the select button within six seconds to choose a difference course starting from (1)⇒(2)⇒(3)⇒(4)⇒(5)⇒(1).....

Course	Course selection indications			Time required (guide)	Course completion summary (※)			
	On self-cleaning recharger	clean	dry	charge	clean	dry	charge	On main unit Backlight (After 1 sec.)
① Charge	—	—	—	● glow (Turn on red light)	—	—	—	● blinks
② Clean/Dry/Charge	● glow	● glow	● glow	Course ③	● blinks	● blinks	● blinks	● blinks
③ Clean/Dry	● glow	● glow	—	Course ②	● blinks	● blinks	—	—
④ Dry/Charge	—	● glow	● glow	Courses ③④⑤	—	● blinks	● blinks	● blinks
⑤ Dry	—	—	● glow	Courses ②③④	—	● blinks	—	—

※ The LEDs on both the self-cleaning recharger and the main unit are the indications for the completion of each course as shown in the table above.

6. EXPLODED VIEW & REPLACEMENT PARTS LIST

6.1. ES8167



NOTE:

*A=available as an optional accessory

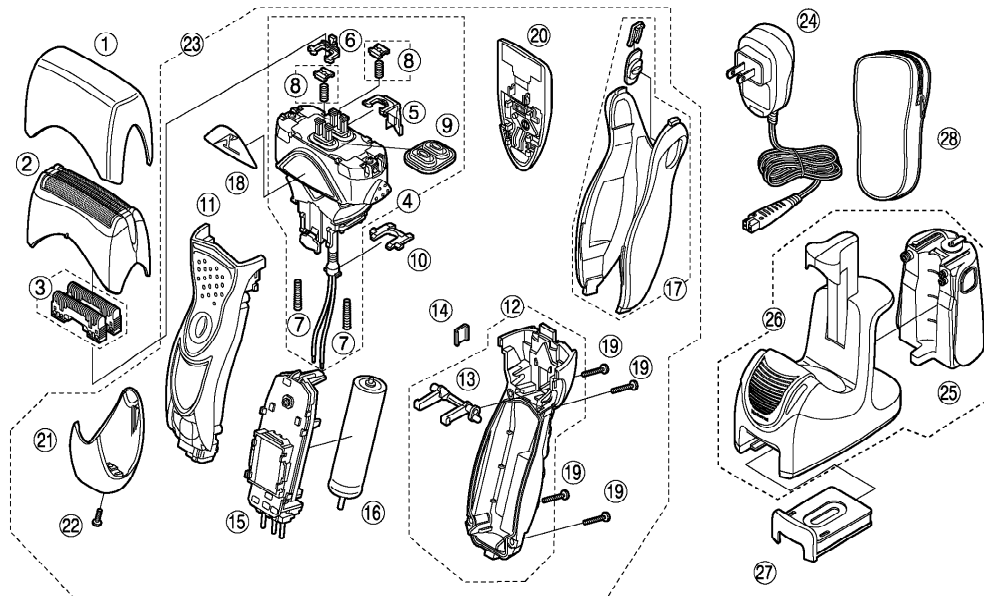
*B=only available as set

*C=available individually

Ref. No.	Part No.	Part Name & Description	Remarks		Per Unit
1	WES8163X7158	PROTECTIVE CAP			1
2	WES9065PC	OUTER FOIL			1
3	WES9066PC	INNER BLADE	*B	(2PCS/PK)	2
4	WES8176L1007	LINEAR MOTOR ASSEMBLY			1
5	WES8176L1087	TRIMMER DRIVING BAR			1
6	WES8176L1077	SLIT BLADE DRIVING BAR			1
7	WES8176L0227	FLOAT SPRING	*B	(2PCS/PK)	2
8	WES8176L0587	SPRING AND STOPPER	*B	(2SETS/PK)	2
9	WES8176L0327	WATERPROOF RUBBER			1
10	WES8176L0207	TUBE HOLDER			1
11	WES8163A3058	HOUSING A			1
12	WES8167A3068	HOUSING B			1
13	WES8176L1157	LOCK LEVER SHAFT			1
14	WES8176L0167	HOUSING CLIP			1
15	WES8163L2128	MODULE			1
16	WES8163L2509	RECHARGEABLE BATTERY		LITHIUM-ION TYPE	1
17	WES8175H3367	REAR PANEL			1
18	WES8175S3347	LOGO PLATE			1
19	WES8176L6007	P TIGHT SCREW	*C	M2-12	4
20	WES8175H1507	TRIMMER			1
21	WES8167H3848	BOTTOM COVER			1
22	WES8176L6057	TAPPING SCREW		M2*8	1
23	WES8167A3038	BODY BLOCK			1
24	WES8163K7658	CHARGING ADAPTOR		A-2 PLUG	1
25	WES8176A7357	WATER TANK			1
26	WES8167H4218	SELF-CLEANING RECHARGER			1

Ref. No.	Part No.	Part Name & Description	Remarks			Per Unit
27	WES035K7770	DETERGENT CARTRIDGE	*B	(3PCS/PK)		1
28	WES8167K7018	SOFT CASE				1
-	WES8167A8008	INDIVIDUAL BOX				1
-	WES8168S8108	OPERATING INSTRUCTIONS				1

6.2. ES8168



NOTE:

*A=available as an optional accessory

*B=only available as set

*C=available individually

Ref. No.	Part No.	Part Name & Description	Remarks			Per Unit
<u>1</u>	WES8163X7158	PROTECTIVE CAP				1
<u>2</u>	WES9065PC	OUTER FOIL				1
<u>3</u>	WES9066PC	INNER BLADE	*B	(2PCS/PK)		2
<u>4</u>	WES8176L1007	LINEAR MOTOR ASSEMBLY				1
<u>5</u>	WES8176L1087	TRIMMER DRIVING BAR				1
<u>6</u>	WES8176L1077	SLIT BLADE DRIVING BAR				1
<u>7</u>	WES8176L0227	FLOAT SPRING	*B	(2PCS/PK)		2
<u>8</u>	WES8176L0587	SPRING AND STOPPER	*B	(2SETS/PK)		2
<u>9</u>	WES8176L0327	WATERPROOF RUBBER				1
<u>10</u>	WES8176L0207	TUBE HOLDER				1
<u>11</u>	WES8164S3058	HOUSING A				1
<u>12</u>	WES8175S3068	HOUSING B				1
<u>13</u>	WES8176L1157	LOCK LEVER SHAFT				1
<u>14</u>	WES8176L0167	HOUSING CLIP				1
<u>15</u>	WES8163L2128	MODULE				1
<u>16</u>	WES8163L2509	RECHARGEABLE BATTERY		LITHIUM-ION TYPE		1
<u>17</u>	WES8162H3369	REAR PANEL				1
<u>18</u>	WES8175S3347	LOGO PLATE				1
<u>19</u>	WES8176L6007	P TIGHT SCREW	*C	M2-12		4
<u>20</u>	WES8175H1507	TRIMMER				1
<u>21</u>	WES8168H3848	BOTTOM COVER				1
<u>22</u>	WES8176L6057	TAPPING SCREW		M2*8		1
<u>23</u>	WES8168S3038	BODY BLOCK				1
<u>24</u>	WES8163K7658	CHARGING ADAPTOR		A-2 PLUG		1
<u>25</u>	WES8176A7357	WATER TANK				1
<u>26</u>	WES8167H4218	SELF-CLEANING RECHARGER				1
<u>27</u>	WES035K7770	DETERGENT CARTRIDGE	*B	(3PCS/PK)		1
<u>28</u>	WES8176K7017	SOFT CASE				1
-	WES8168S8008	INDIVIDUAL BOX				1
-	WES8168S8108	OPERATING INSTRUCTIONS				1